

KEY THEATRE



BAUDER BUILDING BOARD

Project:	Key Theatre, Peterborough
Client:	Enterprise Peterborough
Building Owner:	Peterborough City Council
Roof Area:	350 m ²
Roofing Contractor:	M&J Flat Roofing
PV & Electrical Installer	CJ Electrical Limited



APPLIED PRODUCTS

The BauderSOLAR SOLfixx photovoltaic system is an innovative solution that does not require any drilling of the deck or ballast to install the substructures and modules.

27 PV modules were installed with an expected energy generation of 6.5 MWh.

The green roof system comprised a warm roof construction with a highly efficient PIR insulation. The root resistant cap sheet is a 5mm thick SBS modified elastomeric membrane.

KEY THEATRE

The Key Theatre in Peterborough's city centre combined Bauder's reinforced bitumen membrane waterproofing system and sedum blanket green roof finish with a photovoltaic solution, which the council's contract manager, Mike Phillips described as, **"Because Bauder was already the supplier for the building's waterproofing membrane, it made sense to source its PV system. We were going to get a Bauder warranty at the end of the roofing works and we didn't want to compromise that by using a frame PV system and drilling through the waterproofing."**

The PV array maximised the assigned roof area with 290wp modules inclined at a 10° angle for optimum energy generation per square metre and reduced wind load impact. The PV panels deliver 15.7% efficiency for a powerful and reliable solution.

The project delivered entirely to the client's aspiration - a comprehensive sustainable solution to maximise the environmental benefits of the roof.

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